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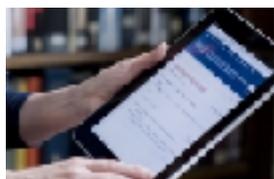
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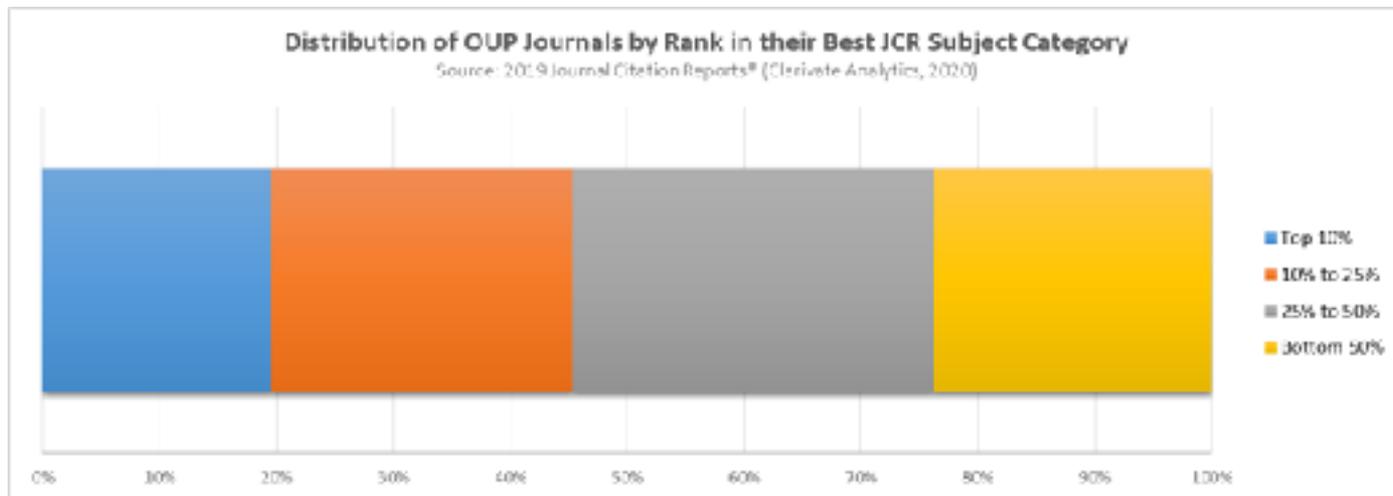
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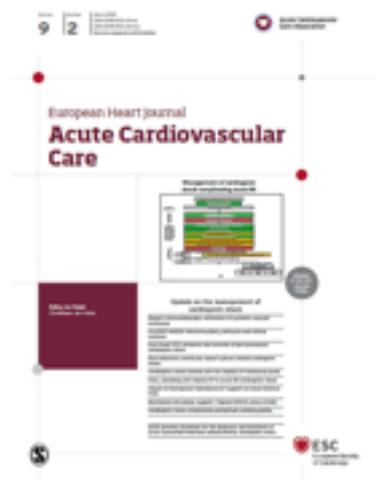
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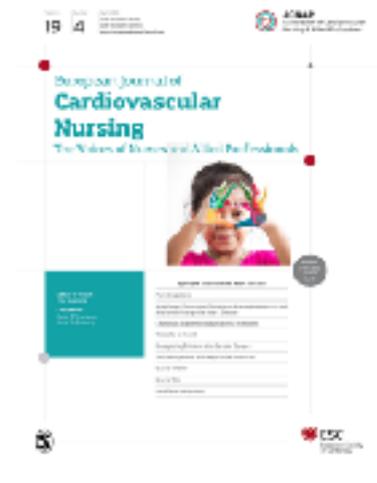
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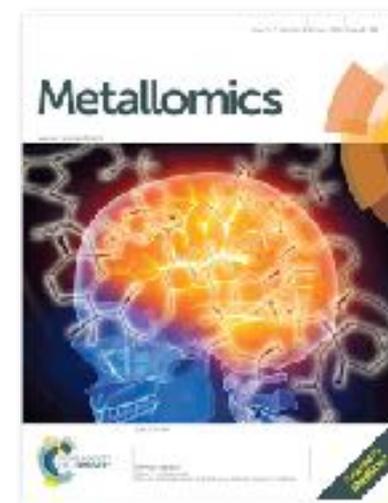
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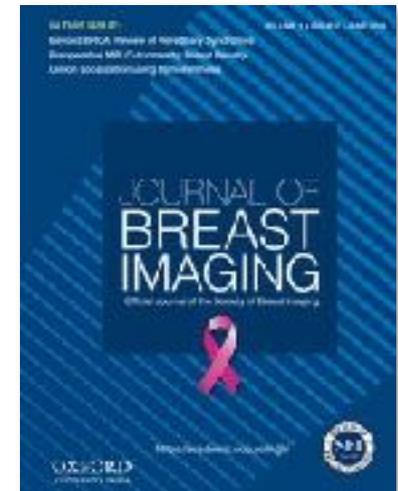


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Jianqing Fan, Fang Han, Han Liu

National Science Review, Volume 1, Issue 2, June 2014, Pages 293–314,
<https://doi.org/10.1093/nsr/nwt032>

Published: 05 February 2014 Article history ▼

Article Contents

- Abstract
- INTRODUCTION
- BACKGROUND
- GOALS AND CHALLENGES OF ANALYZING BIG DATA
- PARADIGM SHIFTS
- ORGANIZATION OF THIS PAPER
- RISE OF BIG DATA
- SALIENT FEATURES OF BIG DATA
- IMPACT ON ST

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Abstract

Big Data bring new opportunities to modern society and challenges to data scientists. On the one hand, Big Data hold great promises for discovering subtle population patterns and heterogeneities that are not possible with small-scale data. On the other hand, the massive sample size and high dimensionality of Big Data introduce unique computational and statistical challenges, including scalability and storage bottleneck, noise accumulation, spurious correlation, incidental endogeneity and measurement errors. These challenges are distinguished and require new computational and statistical paradigm. This paper gives overviews on the salient features of Big Data and how these features impact on paradigm change on statistical and computational methods as well as computing architectures. We also provide various new perspectives on the Big Data analysis and computation. In particular, we emphasize on the viability of the sparsest solution in high-confidence set and point out that exogenous assumptions in most statistical methods for Big Data cannot be validated due to incidental endogeneity. They can lead to wrong statistical inferences and consequently wrong scientific conclusions.

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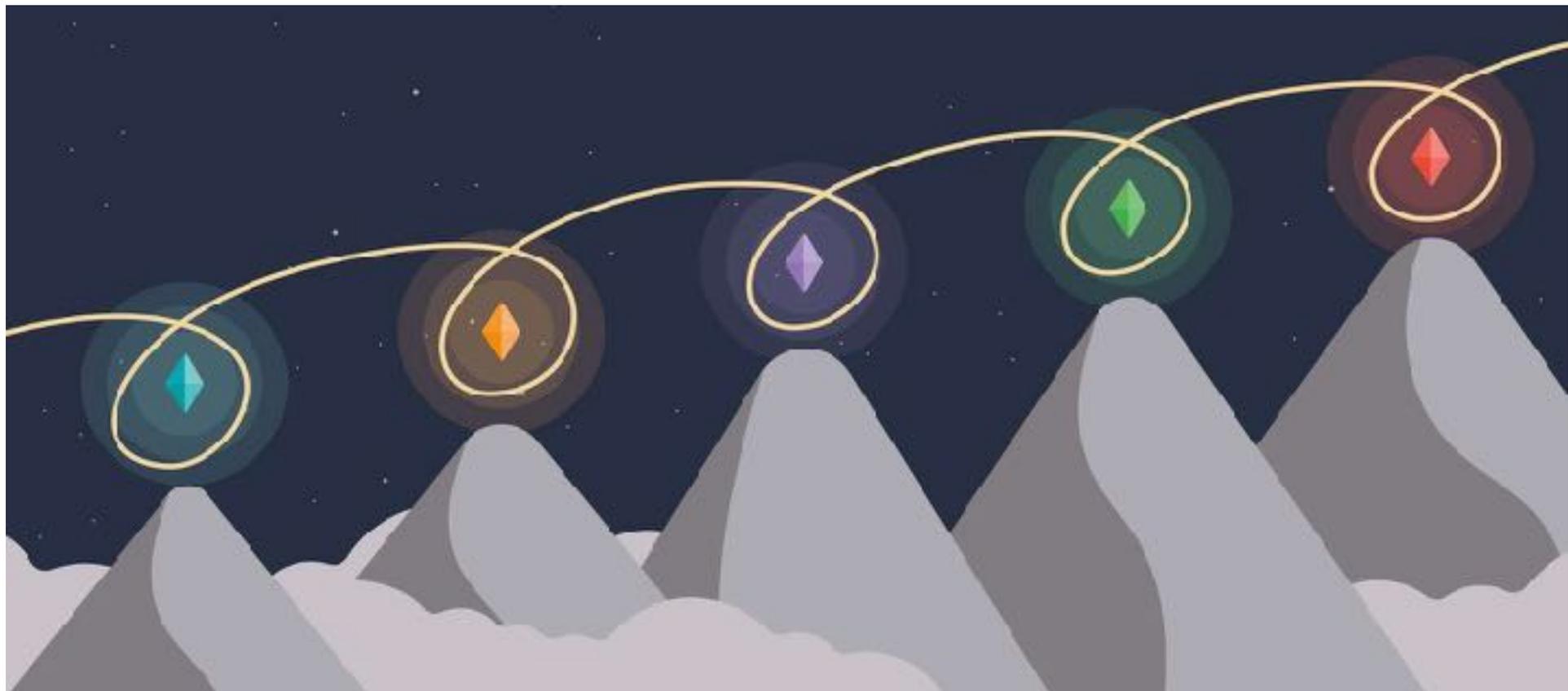
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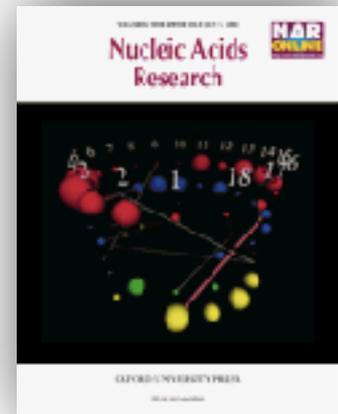
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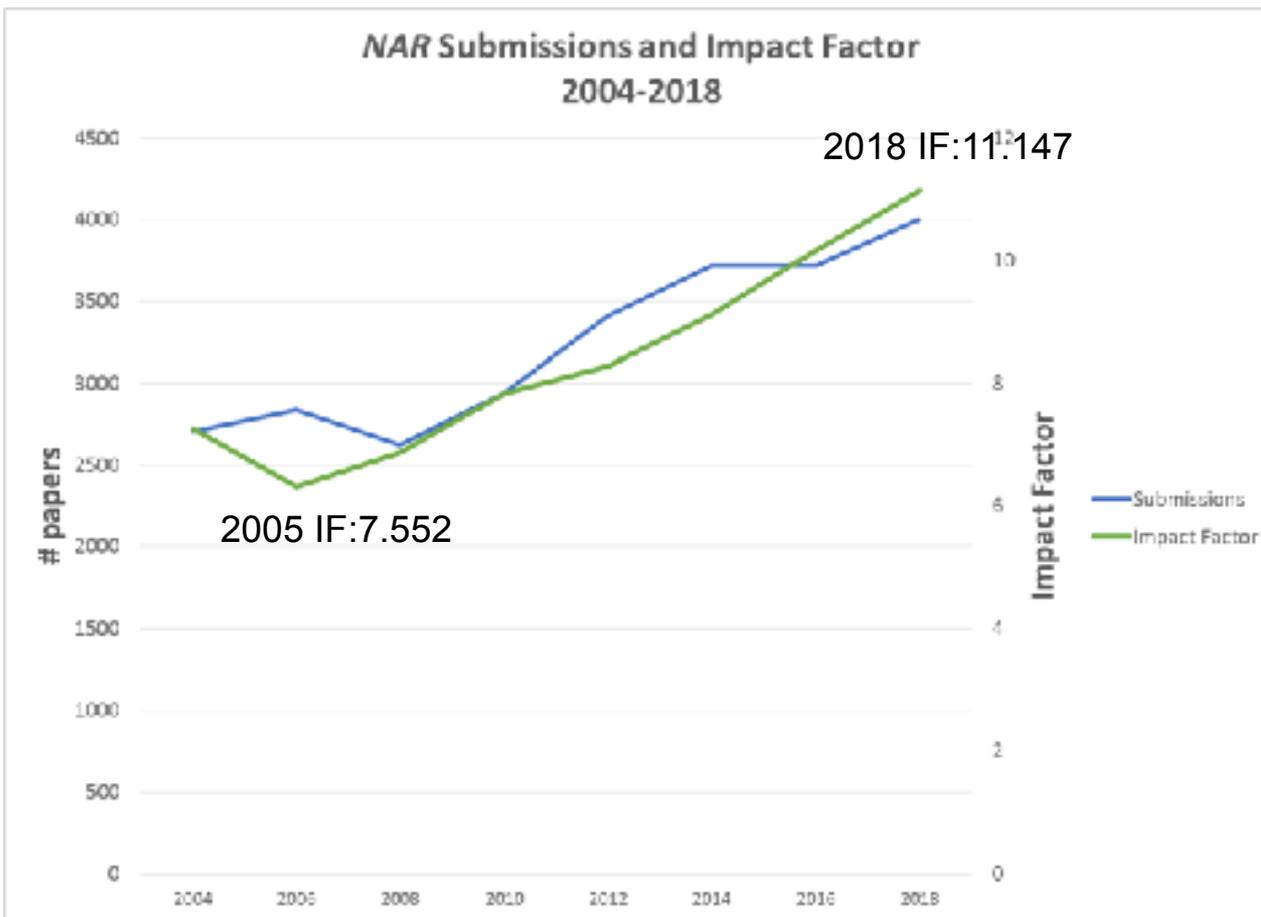
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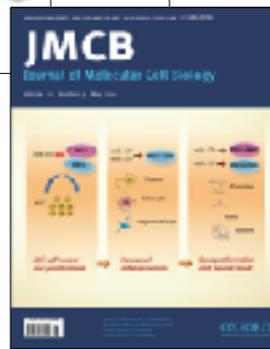
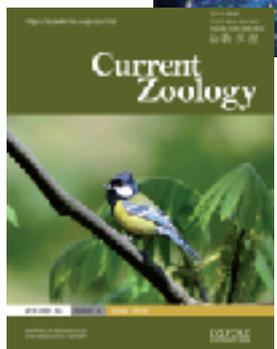
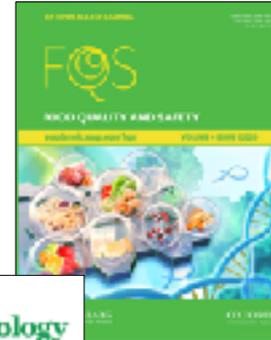
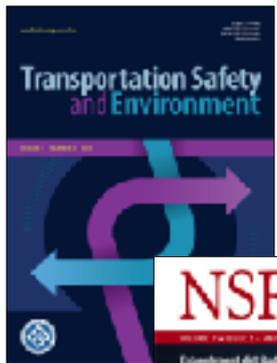
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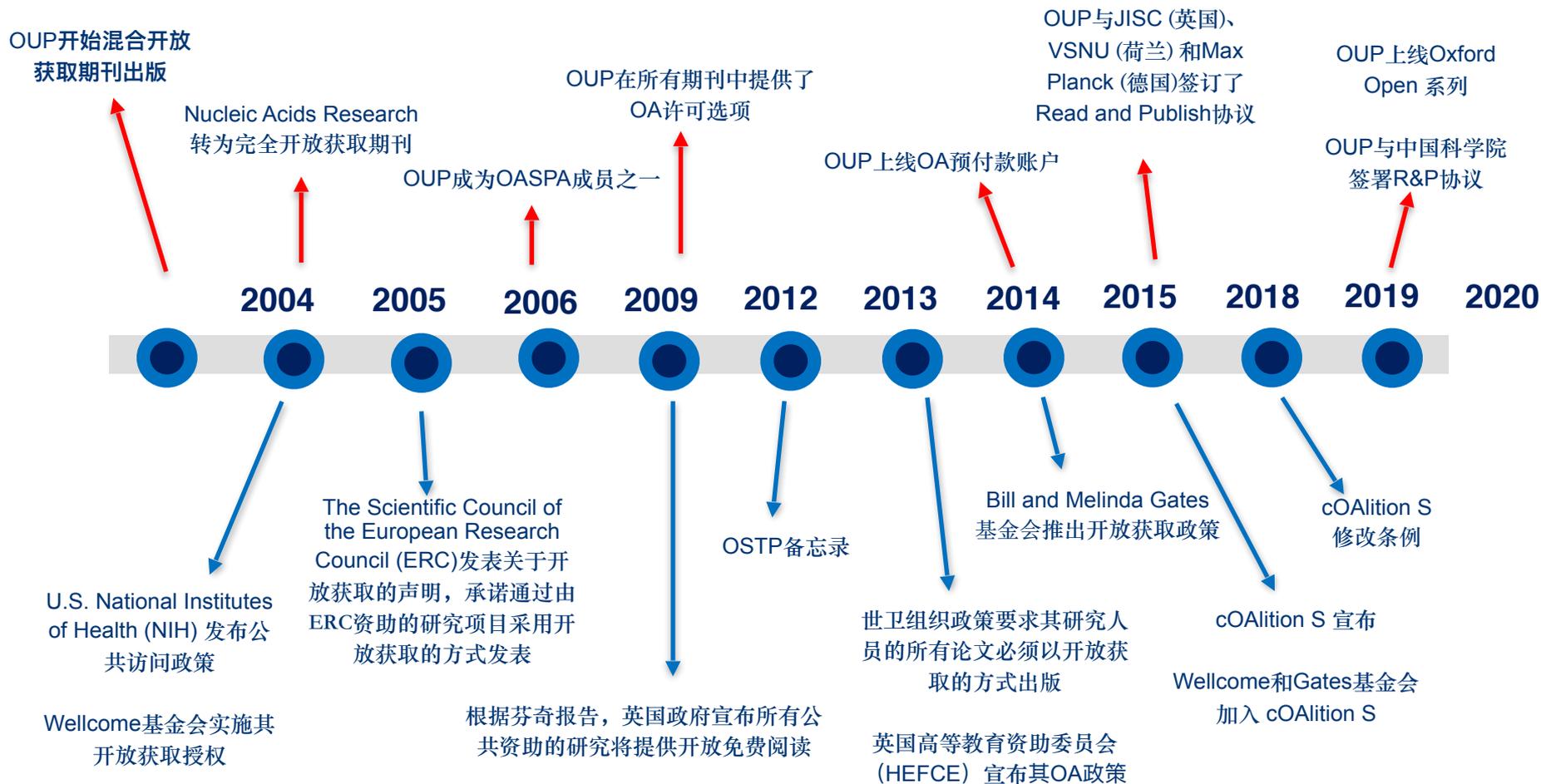


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Access to OUP resources on COVID-19, other coronaviruses, and related topics

As part of our response to the ongoing COVID-19 pandemic across the world, Oxford University Press has made content from online resources and leading journals freely accessible to assist researchers, medical professionals, policy makers, and others who are working to address this health crisis.

OUP is a signatory on the [Wellcome Trust](#) statement, pledging to share research findings and data rapidly and openly. Working in partnership with the White House Office of Science and Technology Policy and the US National Library of Medicine, the Wellcome Trust has also coordinated an [additional statement](#), signed by OUP, which pledges that all research will be made immediately available in PubMed Central (PMC) and other public repositories.

For more information about OUP's full list of freely accessible materials on offer, you can find a comprehensive list of links to our relevant resources [here](#).

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应对远程教学和科研需求

OXFORD
MEDICINE
ONLINE



For Practitioners & Researchers

In order to support medical professionals at this time, we're providing free access to a number of books and chapters on mechanical ventilation, critical care, and acute medicine. Features relevant chapters from the *Oxford Textbook of Medicine* and the *Oxford Handbook of Clinical Medicine*. [Read now.](#)

On the OUP Academic website, you will find a range of resources regarding the ongoing outbreak, including journal content that addresses the challenges of medical professionals in varying specialties. [Visit OUP Academic.](#)



Quarantine Management

Containing the spread of COVID-19 is now the prime mission of the global community. This page provides a collection of titles and chapters that explain the best methods of infection control, the responsibilities of public health and healthcare officials, and the ethics questions emerging around social distancing and lockdowns. [Explore the collection now.](#)



Distance Learning Tools

With so many of us now working and learning in different ways, we've put together a collection of some of our best tools for learning and development. Covering a wide range of medical specialties, this collection features videos, case-based learning, Q&As, and more to help you keep learning - at home or on the go. [Explore now.](#)



Clinical Research

Our Coronavirus Research page lists a number of freely available chapters addressing epidemic management, public health and travel medicine responsibilities, and studies of similar respiratory infections. [Start reading the research.](#)

Coronavirus Resources

Research
Training
Distance Learning



COVID-19 对学术语言的影响

COVID关键术语翻译：

统一的术语对信息有效、准确的传递至关重要

- 世界的语言亟需适应新语和科学名词的突然增加
- 用不同语言传递重要信息变得更加紧迫

19种语言翻译版本

现可免费访问：

<https://languages.oup.com/covid-19-language-resources/#translations>





COVID-19 词汇也重要

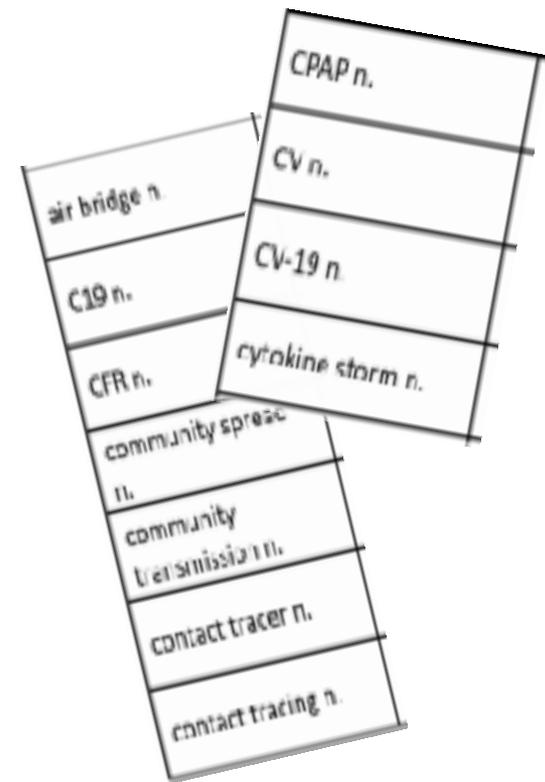
COVID关键词汇收录至OED:

任何新的和普遍的现象总是伴随着新语言的发展来描述它

- 更新内容包括有关COVID-19及其对世界的影响的科学词汇、新出现的词汇以及现有术语的演化
- 所有新词汇现可免费访问

更多信息可在OED网站获取:

<https://public.oed.com/updates/>





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